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PIC/R-4/59

## KOMSOMOLSK PETROLEUM REFINERY NO. 409

25X1D

Komsomolsk Petroleum Refinery No. 409, appearing on [REDACTED] photography, is located in the extreme northern outskirts of Komsomolsk, approximately one mile northwest of the north end of the runway at Komsomolsk Airfield. The fenced portion of the refinery proper covers an area of approximately 200 acres. Buildings and equipment occupy less than one half of this area. Except for a small area in the extreme northwest corner, the refinery area is essentially level land. Space for future expansion is almost unlimited.

The refinery is accessible by highway and railroad from Komsomolsk proper and by several pipelines from the southeast POL storage facilities and pier (see the photograph, Figure 1, and the drawing, Figure 2) on the Amur River about 4 1/2 miles southeast of the refinery. [REDACTED]

25X1D

25X1D

25X1B

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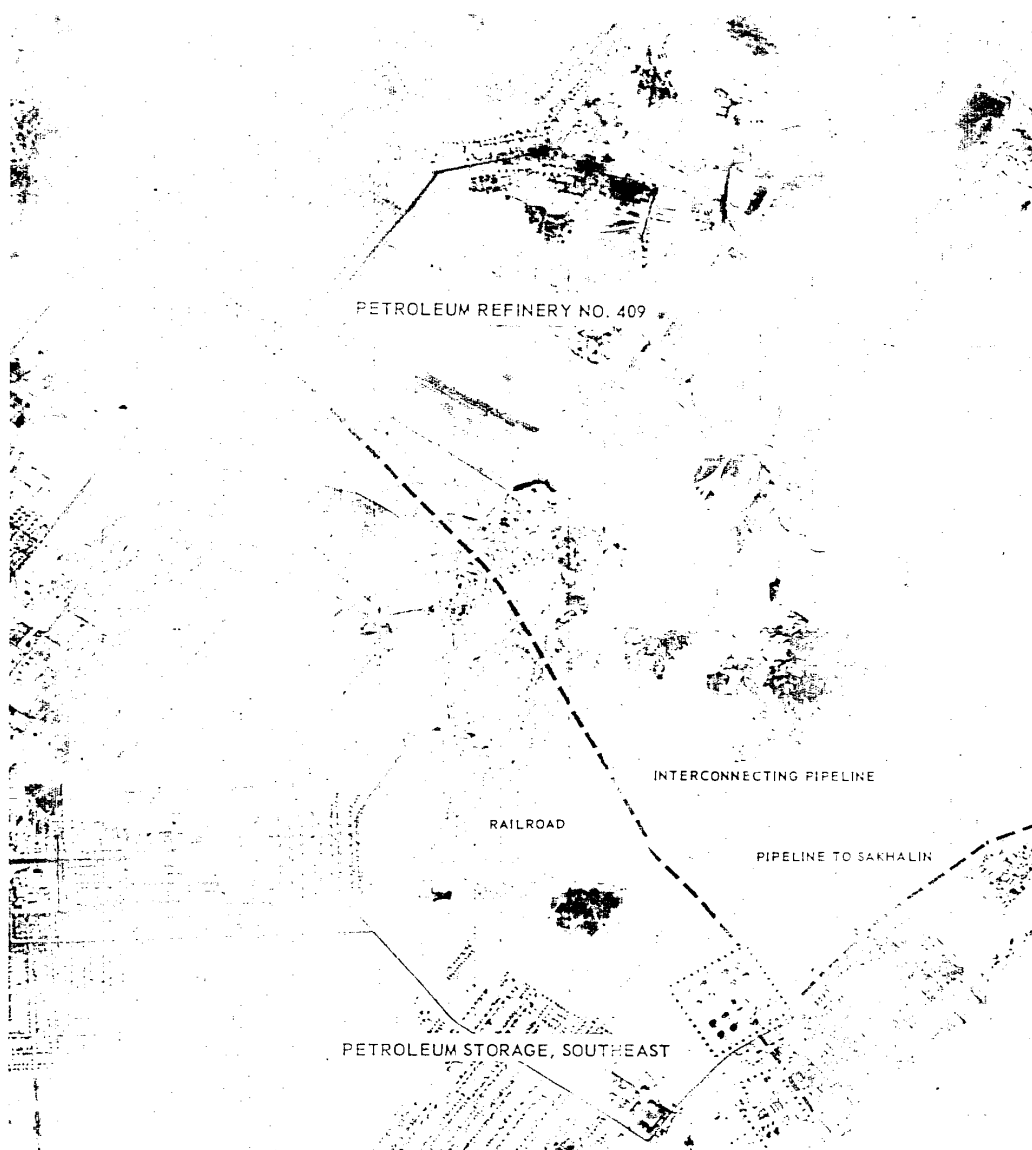


FIG 1. KOMSOMOLSK PETROLEUM REFINERY NO. 409 AND PETROLEUM STORAGE, SOUTHEAST

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the crude oil is done here other than that which is completed in the crude oil distillation unit. A possible lube oil treating unit may be associated with this unit.

25X1D



Approximately 60 storage tanks ranging in diameter from about 8 feet to 114 feet are located in the refinery area. The total storage capacity of these tanks is estimated to be approximately 550,000 barrels. This estimate includes the four 55,000-barrel tanks located a short distance north of the refinery proper (see item 1, Figure 2).

Komsomolsk Petroleum Storage Southeast is the major storage facility outside of the petroleum refinery area. The facility comprises two separate groups of storage tanks in two fenced areas occupying approximately 87 acres along the west bank of the Amur River. A total of about 51 vertical tanks and 12 horizontal tanks in the two storage areas have an estimated storage capacity of approximately 785,000 barrels. No open storage basins were detected in the vicinity. The storage areas are connected by rail to the refinery area and also to Komsomolsk proper. A pipeline leading toward Sakhalin Island is visible for approximately 70 miles, the extent of photo coverage. At the time of the photography, no rail activity was noted in the storage area. Adjacent to the storage area nearest the river is a 430-foot POL pier.

The POL storage annotated as Reference 1-5 on ATMP Chart 0204-9998-0-25A, 1st Ed. December 1953 could not be identified. No additional POL storage areas were detected in the Komsomolsk area other than small storage facilities associated with several of the major industrial establishments, e.g., the Komsomolsk thermal power plant and "Amurstal" steel plant.

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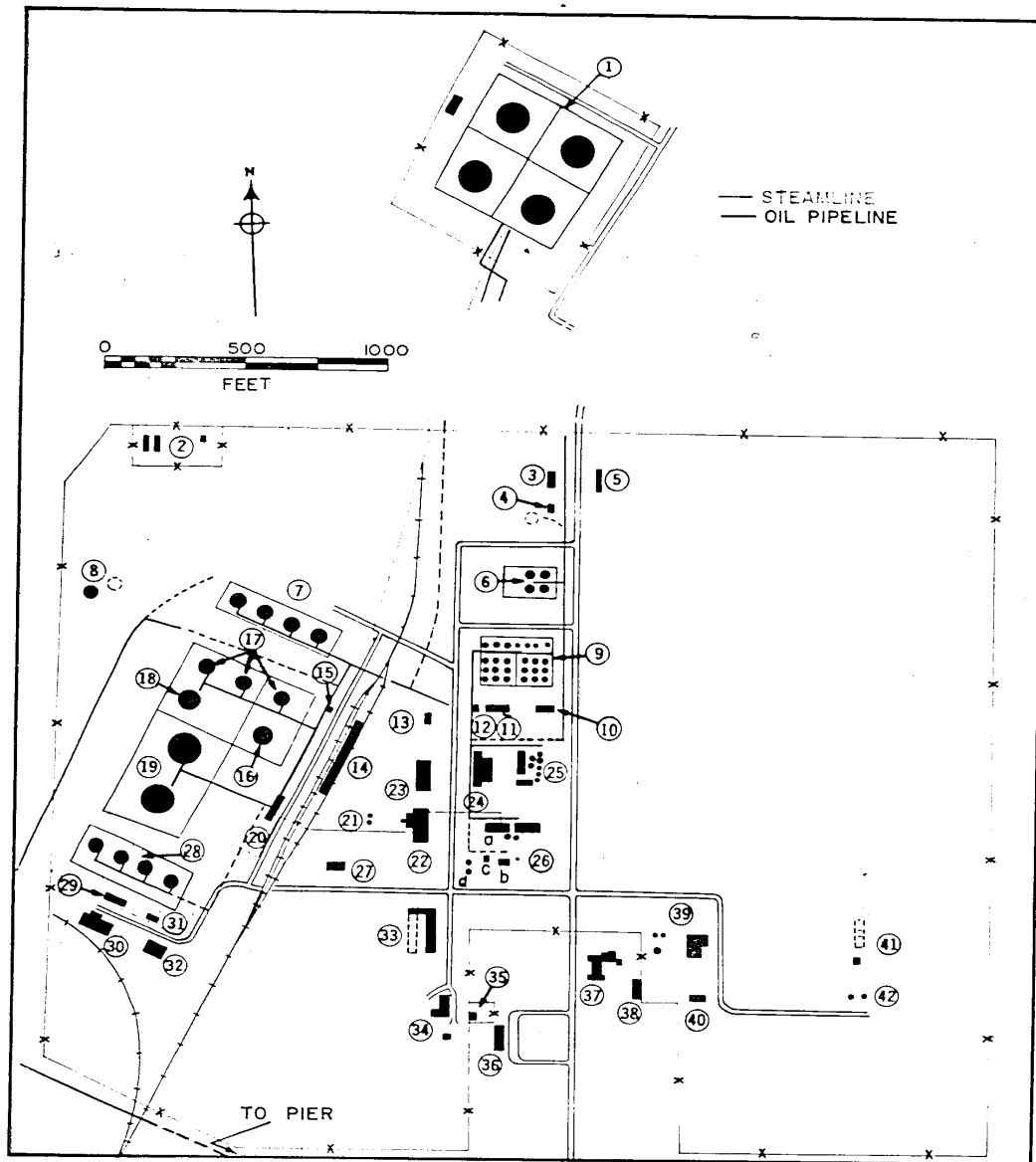


FIG 2. KOMSOMOLSK PETROLEUM REFINERY NO. 409

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Major features of the refinery and the southeast storage facility are shown on Figures 2 and 3 and described in keys to annotations which follow.

# KEY TO ANNOTATIONS

## KOMSOMOLSK PETROLEUM REFINERY NO. 409

1. Four vertical tanks with conical tops, [REDACTED] diameter, approximately 35' high. [REDACTED] One small building, 30' x 60' is under construction immediately west of tanks.
 

25X1B
25X1D
2. Storage area, fenced, containing one single-story warehouse, [REDACTED] and two single-story warehouses, [REDACTED].
 

25X1D
25X1D
3. Unidentified building, two story, flat roof, 25' x 60'.
 

25X1D
4. Unidentified building, single story, flat roof, [REDACTED]. Immediately [REDACTED]
 

25X1D
5. Reported warehouse, single story, flat roof, [REDACTED]
 

25X1D
25X1D
6. Four vertical tanks with conical tops, each [REDACTED] diameter, approximately 25' high [REDACTED]
 

25X1D
25X1D
7. Four vertical tanks with conical tops, each 55' diameter, approximately 35' high.
 

25X1D
8. Excavations along hillside for two tanks. Foundation for one tank in place, approximately 50' diameter.
 

25X1D
9. Twenty-five vertical tanks with conical tops; two batteries of nine tanks, each [REDACTED] diameter, approximately [REDACTED]; one battery of three tanks, each [REDACTED] diameter, approximately [REDACTED]; one battery of four tanks, each [REDACTED] diameter, approximately [REDACTED] high.
 

25X1D
25X1D
10. Unidentified building, single story, gabled roof, [REDACTED]
 

25X1D
11. Possible compressor building, single story, flat roof, [REDACTED]. Three small stacks are visible on roof.
12. Probable pumping station, single story, flat roof, [REDACTED]
 

25X1D

25X1D

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25X1D

- 13. Unidentified building, two story, flat roof, [REDACTED] with unidentified circular object on roof, approximately 15' diameter.

14. Railroad loading rack, [REDACTED] 25X1D

25X1D

25X1D

- 15. Possible pumping station, two story, flat roof, [REDACTED]

[REDACTED]

- 17. Three vertical tanks with conical tops, each 55' diameter, approximately 35' high, probably for volatile products. 25X1D

- 18. One vertical tank, flat top, [REDACTED] diameter, approximately 35' high, probably for volatile products. 25X1D

- 19. Two vertical tanks with conical tops, each [REDACTED] diameter, approximately 35' high, one probably for volatile products, and one probably for heavy oils. 25X1D

20. Pump house, two story, flat roof, [REDACTED]. Roof cluttered with at least eight small stacks near west edge of building. 25X1D

- 25X1D - 21. Two vertical tanks with conical tops, each [REDACTED] diameter, approximately [REDACTED] high. These tanks probably are fuel storage tanks for the steam plant at Item 22.

- 25X1D - 22. Boiler and power house, irregular shape, flat roof, main section is three story, 60' x 105'. Roof appears cluttered, but limited resolution precludes identification of objects. Along west wall is two-story section, [REDACTED], with a smokestack, approximately 95' high. Immediately west of this section, adjacent to south wall of main section is a single-story section, 35' x 60'. 25X1D

- 23. Probable maintenance building, single story, flat roof, [REDACTED]. 25X1D

- 25X1D - 24. Unidentified building, T-shape. Main section is two story, [REDACTED]. Flat roof appears cluttered with approximately ten small irregularly-spaced ventilators. South wing is two story, flat roof, [REDACTED]. North wing is single story, flat roof, [REDACTED]. 25X1D

- 25X1D - 25. Unidentified processing unit. One building, single story, flat roof, [REDACTED]. One building single story, flat roof [REDACTED]. Seven vertical tanks; three [REDACTED] diameter, approximately [REDACTED] high; four [REDACTED] diameter, approximately [REDACTED] high. One of these tanks has appearance similar to a butane storage tank. 25X1D

25X1D

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25X1D

25X1D

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25X1D

26. Crude oil distillation unit. Dark shadows and small scale preclude description of all but the major components of this unit. 25X1D

a. Fractionating column, approximately [REDACTED] high. Adjacent to this tower is another tower approximately [REDACTED] in diameter and approximately 60' high. Immediately to the north of these towers are two two-story buildings, each [REDACTED]. Roofs are cluttered 25X1D

25X1D

[REDACTED] building is a probable cooling pond, approximately [REDACTED] square. 25X1D

b. Pipe still. Building, 40' square, has two stories and a gabled roof. Tall stack is near east end of this building. Other equipment between the pipe still and the two buildings at (a) can be detected, but cannot be identified because of the dark shadows. 25X1D

c. Possible control house for crude oil distillation unit. Single-story building, flat roof, [REDACTED] square. A water cooling tower has been reported at this point but present image bears no resemblance to typical European cooling towers. 25X1D

d. Two vertical tanks, each [REDACTED] diameter, approximately [REDACTED] high. One of these tanks has been reported as a water tank. 25X1D

27. Unidentified building, single story, gabled roof, [REDACTED] 25X1D

- 28. Four vertical tanks, conical tops, 50' diameter, approximately [REDACTED] high. Probably used for heavy oils. 25X1D

- 29. Unidentified building, two story, flat roof, [REDACTED] 25X1D

- 30. Probable warehouse, single story, gabled roof, [REDACTED] 25X1D

- 31. Unidentified building, single story, flat roof, [REDACTED]. 25X1D 25X1D

- 32. Unidentified building, two story, flat roof, [REDACTED]. Roof and west end appears cluttered, but objects are not distinguishable because of dark shadows. 25X1D

- 33. Probable warehouse, U-shape, single story. North section has flat roof, [REDACTED]. East section has gabled roof, [REDACTED]. West section is still under construction. 25X1D

34. Unidentified building. L-shaped. North section, two stories with flat roof, [REDACTED]. South section, three stories with flat roof, [REDACTED]. Immediately south of this section is a small, single-story, flat-roofed building, [REDACTED] square, which is probably used for vehicle repair. Several small objects in vicinity may be vehicles. 25X1D

25X1D

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35. Small secured area with small, single-story, gabled-roofed building, probably used for storage. 25X1D
36. Main administration building, three story, gabled roof, [REDACTED] 25X1D
37. Administration-type building. L-shape, multi-sectional, flat roof, three stories. Main section, [REDACTED] square. At the southeast corner of wing is a tall towerlike structure [REDACTED] square, flat roof, and approximately 55' high. Several small shedlike buildings are in vicinity of this building along the fence which borders the building on the north and east. 25X1D
38. Possible warehouse, single story, gabled roof, [REDACTED] 25X1D
39. Unidentified processing building, L-shape, three stories. Main section, 50' x 95'. Wing, [REDACTED] square. Adjacent to wing is a two-story section, [REDACTED] square. Along the north edge of building, several structures are barely discernible. Dark shadows prevent identification of these objects. About 70 feet to west of building are two vertical tanks, [REDACTED] diameter, approximately 10' high, and one unidentified structure. Dark shadow gives appearance of a vertical tank (20' diameter, approximately [REDACTED] high), but top of object appears cluttered [REDACTED] 25X1D
40. Unidentified building, single story, gabled roof, [REDACTED] A messhall and restroom has been reported near this point. 25X1D
41. Possible power substation, single story, flat roof, [REDACTED] square. Immediately north of building is faint linear pattern suggestive of either a transformer yard or possible early foundation work for a new building. Limited resolution and small scale prevent positive identification. 25X1D
42. Two vertical tanks, each approximately [REDACTED] diameter, approximately [REDACTED] high. 25X1D

# KOMSOMOLSK PETROLEUM STORAGE SOUTHEAST

25X1D

- 1. Battery of three vertical tanks with conical tops, each [REDACTED] diameter, approximately 35' high and light colored. Walls of another tank are standing. [REDACTED] Diameter of portion [REDACTED] No debris is noted in vicinity of tank. 25X1D
- 2. Battery of four vertical tanks with conical tops, each [REDACTED] diameter, approximately 35' high. One is light colored, three are dark colored. 25X1D

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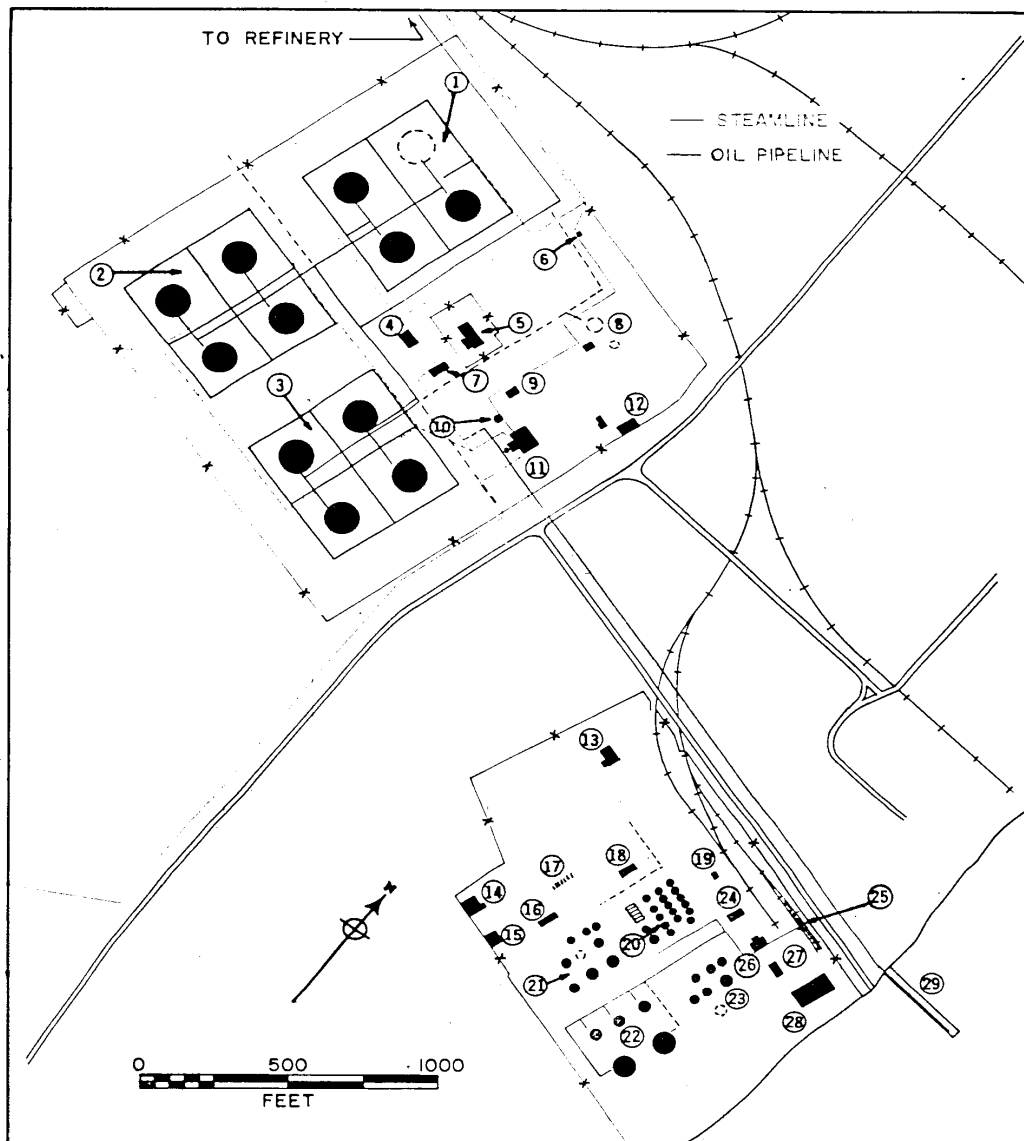


FIG 3. KOMSOMOLSK PETROLEUM STORAGE, SOUTHEAST

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TOP SECRET CHESS

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25X1D

3. Battery of four vertical tanks with conical tops, each [REDACTED] diameter, approximately 35' high. One is light colored, three are dark colored.
4. Unidentified building, two story, flat roof, 30' x 60'. 25X1D
5. Warehouse, single story, gable roof, [REDACTED] On the south side of this building is a small, single-story, flat-roofed section, [REDACTED] 25X1D [REDACTED]. Small wire fence surrounds entire building.
6. Unidentified building, single story, flat roof, [REDACTED] 25X1D 25X1D
7. Pump house, single story, flat roof, [REDACTED]. Three small stacks are on roof. 25X1D
8. Two buried tanks, approximately 30' and 60' diameter. Immediately south of tanks is probable pump house, single story, flat roof, [REDACTED]
9. Unidentified building, single story, flat roof, 30' x 40'. 25X1D
10. Vertical tank, 20' diameter, approximately 15' high. 25X1D
11. Boilerhouse, three story, flat roof, [REDACTED] On southern edge of building is two-story section, [REDACTED]. Roofs of both sections are cluttered but shadows and limited resolution prevent identification of objects. A stack, adjacent to south end of building, is approximately 110' high. 25X1D
12. Probable administration building, two story, flat roof, [REDACTED]
13. Possible maintenance building, two story, flat roof, 40' x 60'. At southeast corner of building is a three-story section, 20' square. More track activity appears around this building than is found around most other buildings in the storage area. The yard around the building is cluttered with many small indistinguishable objects.
14. Unidentified building. East section is two story, flat roof, 20' x 60'. West section is three story, flat roof, [REDACTED] 25X1D
15. Administration building, two story, hipped roof, [REDACTED] 25X1D
16. Possible truck loading dock, single story, flat roof, [REDACTED] 25X1D
17. Battery of seven possible small horizontal tanks, approximately 5' diameter, 10' long.
18. Possible warehouse, single story, flat roof, [REDACTED] 25X1D

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19. Probable pump house, single story, flat roof, [REDACTED] square. 25X1D
20. Battery of 18 vertical tanks and 5 horizontal tanks. Seventeen of the vertical tanks are 20' diameter and approximately [REDACTED] high. Five of these tanks may possibly have floating tops. One vertical tank is 25X1D [REDACTED] diameter and approximately 20' high. The five horizontal tanks are approximately 10' diameter and 30' long. All of the vertical tanks are sitting on mounds of earth which raise the base of tanks at least 10' or more above the surrounding land. 25X1D
21. Battery of eight vertical tanks; three 20' diameter, approximately [REDACTED] high; three [REDACTED] diameter, 20' high, one possibly with floating top; two 40' diameter, approximately [REDACTED] high. Small circular mound approximately 20' in diameter indicates either a buried tank or a foundation for another vertical tank. All of these tanks are raised above surrounding land by being based on circular earth mounds. 25X1D, 25X1D
22. Battery of five vertical tanks; three 40' diameter, approximately [REDACTED] high. Two of these tanks appear to have floating tops, but dark shadows prevent positive identification. If these tanks have floating tops, then tanks are full. Two vertical tanks [REDACTED] diameter, approximately 40' high. One of these tanks almost certainly has a floating top and is almost full. Dark shadows prevent determination of type of top on other tank.
23. [REDACTED] 25X1B  
25X1D
24. Possible warehouse, single story, flat roof, [REDACTED] 25X1D
25. Railroad loading rack with possibly ten loading positions. No tank cars were at loading rack or in vicinity at time of photography. 25X1D
26. Possible pump house, single story, flat roof, [REDACTED]. A small 10' x 25' section is attached to west wall of main building.
27. Unroofed building probably under construction, 30' x 50'. 25X1D 25X1D
28. Partially-roofed, single-story building, [REDACTED]  
25X1D [REDACTED]  
building appears to be completely open. There is no apparent reason 25X1D for such a large building being associated with this POL storage area.
29. POL pier, 10' x 430'.

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REQUIREMENT: This Photographic Intelligence Report has been prepared to satisfy requirement RR/E/R74/58 requesting a detailed description of Komsomolsk Petroleum Refinery No. 409 and any associated POL storage facilities in the Komsomolsk area.

PHOTO DATA:



ATMP:

0204-9998-0-25A 1st Ed. Dec 53  
0204-9998-1-25A 2nd Ed. Dec 53  
0204-9998-2-25A 2nd Ed. Dec 53  
0204-9998-3-25A 2nd Ed. Dec 53  
0204-9998-4-25A 2nd Ed. Dec 53

25X1D

REFERENCES:

ATIS #102, Soviet Petroleum Industry, Jun 51. (S)

COORDINATES AND B. E. NUMBERS:

Komsomolsk Petroleum Refinery No. 409,  
50°37'N/137°03'E, [REDACTED]  
Komsomolsk Petroleum Storage Southeast,  
50°36'N/137°07'E, [REDACTED]

25X1A

25X1A